

CLAIMS

1. An optical compensation plate comprising an optical compensation layer, wherein an anti-cracking layer of a curable adhesive agent is
5 laminated directly on at least one surface of the optical compensation layer.
2. The optical compensation plate according to claim 1, wherein a microhardness of the anti-cracking layer ranges from 0.1 to 0.5 GPa.
- 10 3. The optical compensation plate according to claim 1, wherein the curable adhesive agent comprises at least one adhesive selected from the group consisting of a photocuring resin-based adhesive and a moisture-curing resin-based adhesive.
- 15 4. The optical compensation plate according to claim 1, wherein the curable adhesive agent is at least one thermosetting resin-based adhesive selected from the group consisting of an epoxy resin, an isocyanate resin and a polyimide resin.
- 20 5. The optical compensation plate according to claim 3, wherein the moisture-curing resin-based adhesive is an isocyanate resin-based adhesive.
6. The optical compensation plate according to claim 1, wherein a thickness of the anti-cracking layer ranges from 0.1 to 20 μm .
- 25 7. The optical compensation plate according to claim 1, wherein the optical compensation layer is a cholesteric layer whose constituent molecules are aligned in the form of a cholesteric structure.
- 30 8. The optical compensation plate according to claim 7, wherein the thickness of the cholesteric layer ranges from 0.5 to 10 μm .
9. The optical compensation plate according to claim 7,
wherein the constituent molecules of the cholesteric layer are
35 non-liquid crystal polymers, and
the non-liquid crystal polymer is a polymer obtained by polymerizing
or cross-linking liquid crystal monomers which are aligned in the form of a

cholesteric structure.

10. The optical compensation plate according to claim 9, wherein a helical pitch of a cholesteric alignment ranges from 0.01 to 0.25 μm .

5 11. The optical compensation plate according to claim 7, wherein the constituent molecules of the cholesteric layer are liquid crystal polymers, and the liquid crystal polymers are aligned in the form of a cholesteric structure.

12. A polarizing plate comprising a polarizer, a transparent protective layer and the optical compensation plate according to claim 1, wherein the polarizer and the optical compensation plate are laminated together via the transparent protective layer.

13. The polarizing plate according to claim 12, wherein the optical compensation plate and the transparent protective layer are directly adhered to each other by the anti-cracking layer in the optical compensation plate.

14. The polarizing plate according to claim 12, wherein, in the optical compensation plate, a pressure-sensitive adhesive layer is laminated on the surface of the optical compensation layer opposing to the surface on which the anti-cracking layer is laminated.

15. The polarizing plate according to claim 14, wherein a material of the pressure-sensitive adhesive layer is at least one resin-based pressure-sensitive adhesive selected from the group consisting of an acrylic resin, a rubber-based resin and a vinyl-based resin.

16. The polarizing plate according to claim 12, wherein the optical compensation plate is configured by laminating the anti-cracking layers on both surfaces of the optical compensation layer, and one of the anti-cracking layers and the polarizer are laminated together via the transparent protective layer.

17. The polarizing plate according to claim 16, wherein, in the optical compensation plate, a pressure-sensitive adhesive layer and a liner are further disposed in this order on the surface of the anti-cracking layer on which the polarizer is not laminated.
- 5 18. The polarizing plate according to claim 14, wherein a liner is further disposed on the surface of the pressure-sensitive adhesive layer.
- 10 19. A liquid crystal panel, comprising a liquid crystal cell and at least one optical member selected from the group consisting of the optical compensation plate according to claim 1 and the polarizing plate according to claim 12.
- 15 20. A liquid crystal display comprising a liquid crystal panel, wherein the liquid crystal panel is of claim 19.
- 20 21. An image display apparatus, which is at least one image display apparatus selected from the group consisting of an electroluminescence (EL) display, a plasma display (PD) and a field emission display (FED), comprising at least one optical member selected from the group consisting of the optical compensation plate according to claim 1 and the polarizing plate according to claim 12.